Original/Duplicate/Triplicate
CONTRACT CERTIFICATE
(For Other Works)

Date.....2018.

No 1st and final bill

Division: **BBMP / YNK** Sub-Division: **Yelahanka Sub – Division.**

Bill Received No. Dated Divisional Cash Book Voucher No..... Dated.....

Sub Divisional **Work Code: 001-18-000025.**

Schedule Docket No. Head of Account: P-2178 Est.Cost: **50.00** Lakhs B.R.No. :

Name of Work : IMPROVEMENTS TO ROADS AND DRAINS AT NEHRU NAGARA AND SURROUNDING AREAS IN WARD NO.01 OF YELAHANKA SUB-DIVISION

Name of Contractor and Full Address: **Technical Manager (West) KRIDL, BBMP, Bangalore.**

Reference to Agreement No. EE/YNK.D/ **W.O/ 000118 /2017-18.** Date: 25-2-2018.

Certified that the measurements were taken by me on 16/04/18 and recorded of Pages 104026 to 104045 measurement Book No.**1041** and that the work is satisfactorily executed.

Officer-in-charge of work

Contractor

Certified that the measurements were taken by me on 16/4/18 and found correct. The work is satisfactorily executed.

Assistant Executive Engineer
Byatarayanapura Sub-division
KRIDL, BBMP, Bangalore

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore

II Memorandum of Payment

1) Total value of work done or supplies made as per account within 1st & final — 4985994=00
2) Deduct amount to be held in reserve being .....percent Rs..... — 249299=00
3) " Balance — 49860=00
4) Deduct Payment: — 49860=00
   a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No..... Amount — 99720=00
   adjusted towards cash advance recovery of — 49860=00
   b) Payments Now made } cost store or other material supplied. — 4985=00
   recovery of amount creditable to this/other work — 60450=00
   Amount paid on this bill Cheque / Cash. — 564033=00
5) Balance being unpaid value of work done held in reserve. — 4421961=00
6) Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.
7) Net amount due to or from Contractor unadjustments items.
8) Advance to Contractor for materials brought to site (as detailed) within.
9) Value of Government materials supplied.

Total amount adjusted -

(Contractor's Signature)

Assistant Executive Engineer
Byatarayanapura Sub-division
KRIDL, BBMP, Bangalore

Received Rs..... (in words).....

.....

by cash and by adjustment of Payment as per memorandum

(in final settlement of all demands)

(For use in the Office)

Witness
1.
2.

Dated Signature of Contractor

Paid by Cash/Cheque No..... Dated.....

Cash Rs.....

Dated.....

Initials of Officer making payment

Stamp

Audited & Admitted for Rs. 4985994=00

564033=00

4421961=00

by Cheque

and Rs.

Executive Engineer

Exe. Engineer
Yelahanka Sub-division
BBMP

Measurment		Present Measurement			Total up-to date		Rem
Qty	cost	Qty	Rate	Cost	Qty	cost	
–	–	414.60	72.95	30245.00	414.60	30245.00	
–	–	203.40	96.48	19624.00	203.40	19624.00	
–	–	172.50	43.53	7509.00	172.50	7509.00	
–	–	414.60	89.42	37074.00	414.60	37074.00	
–	–	90.99	222.38	20234.00	90.99	20234.00	
–	–	327.39 327.45	918.92	300845 300900.00	327.45	300845 300900.00	
–	–	275.22	184.73	50841.00	275.22	50841.00	
–	–	1069.50	111.00	118715.00	1069.50	118715.00	
–	–	521.20	3.53	1840.00	521.20	1840.00	
–	–	39.38	1848.44	72792.00 72771	39.38	72792.00 72771	
–	–	69.21	1962.57	135829.00	69.21	135829.00	
–	–	209.10	5524.14	1155098.00	209.10	1155098.00	
–	–	0.10	6214.80	621.00	0.10	621.00	
–	–	30.37	12246.05	371913.00	30.37	371913.00	
–	–	1.53	71310.20	109105.00	1.53	109105.00	
–	–	173.40	2100.00	364140.00	173.40	364140.00	
–	–	5.40	4402.79	23775.00	5.40	23775.00	
–	–	163.03	6901.94	1125223.00	163.03	1125223.00	
–	–	330.15	30.59	10099.00	330.15	10099.00	
–	–	16.19	6976.06	112942.00	16.19	112942.00	
–	–	874.55	12.94	11317.00	874.55	11317.00	
–	–	34.99	7863.22	275134.00	34.99	275134.00	
–	–	46.88	515.35	24160.00	46.88	24160.00	
–	–	280.00	368.28	103118.00	280.00	103118.00	
–	–	96.00	30.59	2937.00	96.00	2937.00	
–	–	96.00	70.60	6778.00	96.00	6778.00	
				4491963.00		4491963.00	4491887
3% KRIDL charge+1% labour				179678.52		179678.52	179675
7% GST charge				314437.41		314437.41	314432
Total				4986079.00		4986079.00	

Total → 4985994

	Description of work	Unit
	Removing B.S. slab of Drain and stacking.(P No.25 / I N 5.32)	Sqm
	KSRRB 300 - Excavation for road, drains and similar works - KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH Chapter 3	Cum
	KSRB M300-19. Removal of unserviceable soil including excavation loading and disposal but excluding replacement by suitable soil which shall be paid separately as per clause 300.5 complete as per specications. (P No 143 & I No 19.20)	Cum
	Refixing stone slabs of drains and pointing in C.M.(1:3)(P.No.25/I.No.5.33)	Sqm
	KSRB 2-2.1 Earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification No. KBS 2.1(a) / 2.3.5 No 5	Cum
	KSRRB M200-24.- dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces no exceeding 0.02 Cum in volume and stock piling at designated locations and disposal of dismantled materials upto a lead of 1000 meters, stacking serviceable and unserviceable materials separately complete as per specifications MORTH specifications. No. 202.	Cum
	KSRB 2-1.1 Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications, specification No. KBS 2.1 (a) / 2.3.1 (P.5/I.2.1)	Cum
	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregate /sand/kaner/ Moorum KSRRB M100-1 Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications MORTH -100/ Chapter 1	Sqm
	Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and /or compressed air to recieve bituminous treatment including cost of all materials, labour, HOM of machineries complete as per Specifications	Cum
0	KSRRB M400-6.1 Construction of granular sub-base by providing close graded material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method Close graded granular sub-base material as per 400-1 For Grading- II Material	Cum
1	KSRRB M400- Wet Mix Macadam - KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications.	Cum
2	KSRB 4-1.3: Providing and laying in position plain cement concrete of mix 1:4.8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications Specification No KBS 4.1, 4.2 (P.12/I.4.3)	Cum
3	KSRB 4-1.7: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs with 20mm and down size graded granite metal coarse aggregate @ 0.84cum and fine aggregate @ 0.56 cum machine mixed concrete laid in layers not exceeding 15cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification No. KBS 4.1.4.2	Cum
4	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC cement at 300kgs. with 20mm and down size granite metal coarse aggregates at 0.69cum and fine aggregates at 0.43cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No.1500, 1700, 2200 -do- Wall and bottom thickness 15cm (P.No.265 / II.No.37.59.2)	Cum
5	KSRB 4.9.2:Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3-do-TMT Bars Fe 500 P 17/II.No.4.46.2 (rates effects from 01-07-2017)	Tonnes
6	Providing and fixing RCC precast Slabs of 0.10 m thick of CC 1:2:4 with 20 mm and down size graded granite metal , machine mixed , including cost of all material , labour , HOM of Machinery , curing complete	Sqm
7	Providing and fixing RCC precast Slabs of 0.20 m thick of CC 1:2:4 with 20 mm and down size graded granite metal , machine mixed , including cost of all material , labour , HOM of Machinery , curing complete	
8	KSRRB M600-6 Cement concrete pavement. Construction Un- reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 with 25mm and size graded granite metal , coarse and fine aggregate with superplastisiser @ 3lts conforming to IS9103-1999 Reaffirmed-2008, mixed in a concrete mixer of not less than 0.6cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved curing compound, finishing to lines and grades as per drawing complete as per specifications.	
9	Providing and applying primer coat with ss bitumen emulsion on prepared surface of granular base such as WMM including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means complete as per specifications. MORTH Specification No.502	
0	KSRRB M500- 15. Providing, laying dense graded bituminous macadam using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II (50mm to 75mm), crushed aggregates of specified grading premixed with 4.5% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications MORTH Specification No.507 (P.No.162&163 /I.No.21.17.6)	
1	KSRRB 500-7:Providing and applying tack coat with bitumen emulsion using 60/100 grade bitumen (VG20) on the prepared black toped suface at 2.5kg per 10 sqm, heating bitumen in boiler fitted with spray set (Excluding cleaning of road surface) including cost of all materials, labour, HOM of Machineries complete as per Specifications (P.No.160 & I.No.21.7)	
2	KSRRB M500- 15. Providing, laying bituminousConcrete using 40/60 THP capacity H.M.P with Mechanical paver Gr-II (30mm to 45mm), crushed aggregates of specified grading premixed with 6% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade,rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH Specification clause No.500.9 complete in all respects complete as per specifications MORTH Specification No.509 (P.No.164 Item No.21.22.6)	
3	KSRRB M800-13. Road marking with hot applied thermoplastic compound with reflect rising glass beads on bituminous surface- providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 grms per sqm area, thickness of 2.5 mm is exclusive of surface to level, uniform and free from streaks and holes complete as per specifications. MORTH specification No. 803, No. 1974 (P.No.181 & I.No.24.15)	
4	5.29(b)Providing and fixing pre cast solid cement concrete kerb stones made out of No.272.21 C.C 1:2:4 with top and bottom width 114 and 165mm repectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork curing, including, cost of all materials, labour hire charges of machinery, loading unloading, lead and lift, transportation etc. complete (P.No.25 /II.No.5.30)	
5	KSRB 15-19.2 :Providing and applying ready mix priming coat over concrete/masonry/asbestos cement sheet/plastered surfaces including preparing the surface after throughly cleaning of oil,grease dirt and other foreign matter and sand papering including cost of materials, labour, complete as per specifications.	
6	KSRB 800-1 Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. (Page No.182 & Item No.24.1)	
		TOT

Certificates:

1 The above work is done satisfactorily and complete in all respect.
2 There is no department Material issue for the above work.
3 This works comes under BBMP Limit.

Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore